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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/623,772	07/22/2003		Teruhiko Kumada	402715	6113
23548	7590	11/23/2004		EXAM	INER
LEYDIG V	OIT & M	AYER, LTD	SCHILLINGER, LAURA M		
700 THIRTEENTH ST. NW SUITE 300				ART UNIT	PAPER NUMBER
WASHINGTON, DC 20005-3960				2813	

DATE MAILED: 11/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

• '	Application No.	.Applicant(s)				
	10/623,772	KUMADA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Laura M Schillinger	2813				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	i6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 05 M	arch 2004.					
<u> </u>	action is non-final.					
Since this application is in condition for allowar closed in accordance with the practice under E	nce except for formal matters, pro					
Disposition of Claims						
 4) Claim(s) 1-14 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-14 are subject to restriction and/or example. 	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examine						
	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the	- · ·					
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list.	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)	🗖					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ∭ Interview Summary Paper No(s)/Mail Da					
Notice of Draitsperson's Patent Drawing Review (P10-946) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		Patent Application (PTO-152)				

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DETAILED ACTION

Note the subsequent election of species requirement

Election/Restrictions

-Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-8, drawn to a via filling material, classified in class 424, subclass 541.
- II. Claims 9-14, drawn to a process for fabricating a IC, classified in class 438, subclass 151.

The inventions are distinct, each from the other because of the following reasons:

Inventions II and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the method could produce a DRAM; capacitor, or memory element.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II or vice versa, restriction for examination purposes as indicated is proper.

This application contains claims directed to the following patentably distinct species of the claimed invention:

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Group I:

Species 1, claims 1-2, pertaining to the via filling material with a specific repeating unit including CH₂-C;

Species 2, claims 3-7, pertaining to the via filling material with a specific repeating unit CH₂=C;

Species 3, claims 8, pertaining to a via filling material with a first and second monomer; Group II:

Species 1, claim 9, pertaining to a method including forming a stopper film interposed between an upper and lower insulating film and applying a via material of claim 1, with a specific repeating unit including CH₂-C;

Species 2, claim 10, pertaining to a method including forming a via hole in an insulating film and applying a via material of claim 1, with a specific repeating unit including CH₂-C;

Species 3, claim 11, pertaining to a method including forming a stopper film interposed between an upper and lower insulating film and applying a via material of claim 3, with a specific repeating unit including CH₂=C;

Species 4, claim 12, pertaining to a method including forming a via hole in an insulating film and applying a via material of claim 3, with a specific repeating unit including CH₂=C;

Species 5, claim 13, pertaining to a method including forming a stopper film interposed between an upper and lower insulating film and applying a via material of claim 8, with two monomers;

Species 6, claim 14, pertaining to a method including forming a via hole in an insulating film and applying a via material of claim 8 with two monomers.

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Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, there is no generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

A telephone call was made to Jeffery Wyand on 11/17/04 to request an oral election to the above restriction requirement, but did not result in an election being made.

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Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura M Schillinger whose telephone number is (571) 272-1697. The examiner can normally be reached on M-T, R-F 7:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl W Whitehead, Jr. can be reached on (571) 272-1702. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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LMS

11/27/04